

F1  
wherein the solid electrolyte has a cup-shape, the heater is provided within the cup-shaped solid electrolyte, a clearance is formed between the heater and the internal electrode, said clearance being 0.1 mm or more.

F2 Sub 5  
15. (Amended) An oxygen concentration detector according to claim 12, wherein said material having a high emissivity has an emissivity of ~~0.3~~ <sup>than 0.6</sup> or more.

Claim 16, line 5, change "said surface" to --a surface--.

F3  
17. (Amended) An oxygen concentration detector according to claim 16, wherein said material [having a high emissivity] has an emissivity of 0.3 or more.

F3  
18. (Amended) An oxygen concentration detector according to claim 1, wherein the thickness of the high-emissivity layer is [in the range of 5-20  $\mu\text{m}$ ] 5  $\mu\text{m}$  or more.

Kindly add the following new claim:

F4  
--20. An oxygen concentration detector according to claim 18, wherein the thickness of the high-emissivity layer is in the range of 10-20  $\mu\text{m}$ --